

Product datasheet for **TA329128**

Grp75 (HSPA9) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	WB, IHC, IP
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-HSPA9 antibody: synthetic peptide directed towards the C terminal of human HSPA9. Synthetic peptide located within the following region: GENIRQAASSLQASLKL FEMAYKKMASEREGSGSSGTGEQKEDQKEEKQ
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	75 kDa
Gene Name:	heat shock protein family A (Hsp70) member 9
Database Link:	NP_004125 Entrez Gene 15526 Mouse Entrez Gene 291671 Rat Entrez Gene 3313 Human P38646



[View online »](#)

Background:

HSPA9 belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. HSPA9 is a heat-shock cognate protein. This protein plays a role in the control of cell proliferation. It may also act as a chaperone. CSHL1 is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. This particular family member is expressed in placental villi, although it was originally thought to be a pseudogene. In fact, alternative splicing suggests that the majority of the transcripts would be unable to express a secreted protein. The product encoded by this gene belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. This gene encodes a heat-shock cognate protein. This protein plays a role in the control of cell proliferation. It may also act as a chaperone.

Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase and contains a Sac domain. The activity of this protein is specific for phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Alternatively spliced transcript variants have been observed, but most of them are not thought to be protein-coding.

Synonyms:

CSA; GRP-75; GRP75; HEL-S-124m; HSPA9B; MOT; MOT2; MTHSP75; PBP74

Note:

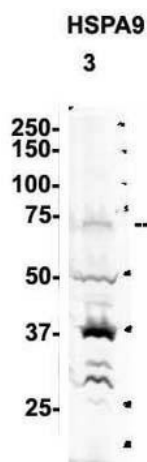
Immunogen sequence homology: Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Dog: 92%; Pig: 92%; Guinea pig: 92%; Bovine: 85%

Protein Families:

Stem cell - Pluripotency

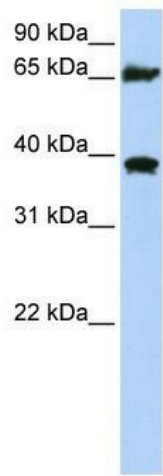
Protein Pathways:

RNA degradation

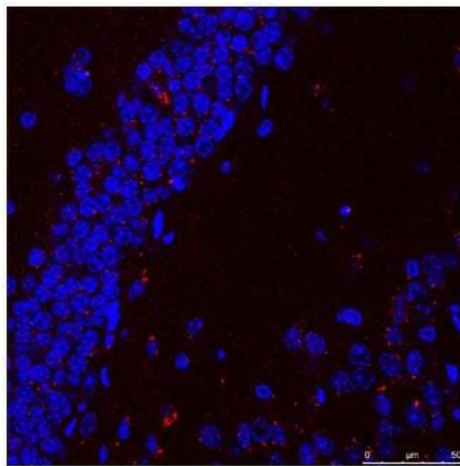
Product images:

See Immunoblot 2 Data for more information.

Sample Type: rat brain extract (80ug); Primary antibody dilution: 2ug/ml; Secondary antibody: IRDye 800CW goat anti-rabbit from Li-COR Bioscience; Secondary antibody dilution: 1:20,000; Image Submitted by: Yuzhi Chen University of Arkansas for Medical Science

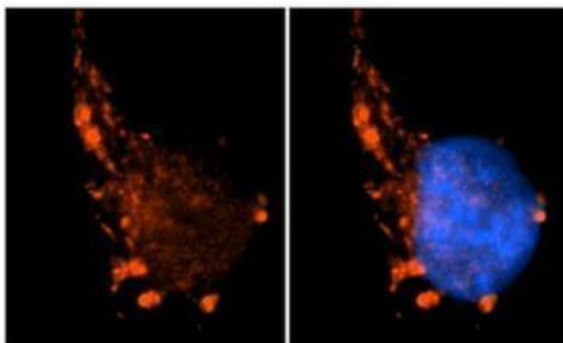


WB Suggested Anti-HSPA9 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: 293T cell lysate HSPA9 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells



Sample Type : Human brain stem cells
 Primary Antibody Dilution : 1:500
 Secondary Antibody : Goat anti-rabbit Alexa-Fluor 594
 Secondary Antibody Dilution : 1:1000
 Color/Signal Descriptions : HSPA9: Red DAPI:Blue
 Gene Name : HSPA9
 Submitted by : Dr. Yuzhi Chen, University of Arkansas for Medical Science

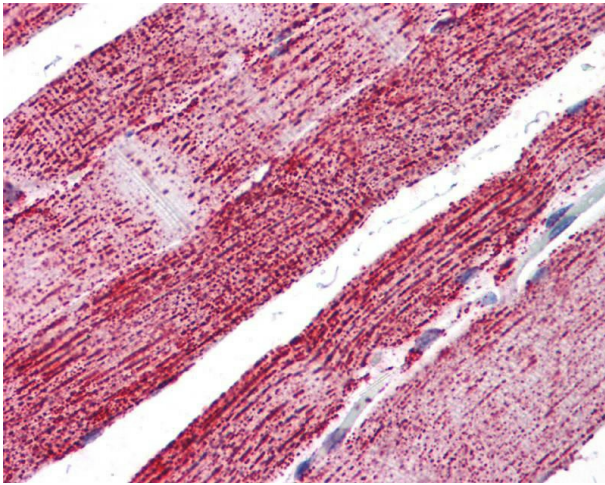
HSPA9



Antibody--RED
 DAPI--Blue

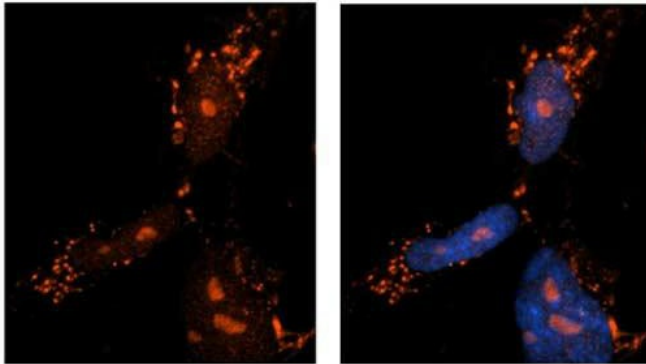
Sample Type : Human brain stem cells
 Primary Antibody Dilution : 1:500
 Secondary Antibody : Goat anti-rabbit Alexa-Fluor 594
 Secondary Antibody Dilution : 1:1000
 Color/Signal Descriptions : HSPA9: Red DAPI:Blue
 Gene Name : HSPA9
 Submitted by : Dr. Yuzhi Chen, University of Arkansas for Medical Science

See IHC 4 Data and Customer Feedback for more information



Skeletal muscle

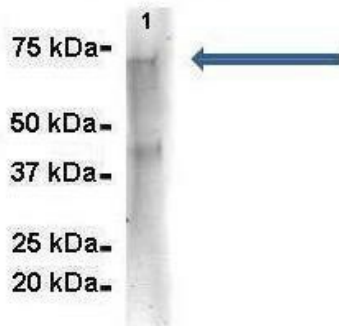
HSPA9



Data Provided by Dr. Yuzhi Chen, University of Arkansas for Medical Sciences
 NT2 cells were pretreated with 2N HCL for 30 minutes
 Washed 3x in PBS
 Stained for 2 hours with 1 ug/50ul antibody
 and Incubated in Alexa goat-rabbit 594 for 1H.
 Images were obtained with a 40x objective
 NT-2 cells
 Antibody: Red
 DAPI: Blue

See Immunohistochemistry 2 Data and Customer Feedback tab for more information.

HSPA9



Amount and Sample Type : 500 ug mouse brain homogenate;
 Amount of IP Antibody : 6 ug;
 Primary Antibody : HSPA9;
 Primary Antibody Dilution : 1:500;
 Secondary Antibody : Goat anti-rabbit Alexa-Fluor 594;
 Secondary Antibody Dilution : 1:5000;
 Gene Name : HSPA9;
 Submitted by : Dr. Yuzhi Chen, University of Arkansas for Medical Science

See Other Application 2 Data and Customer Feedback for more information.